IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Dong-Ho Oh, et al. Serial No.: 10/618,524	
Filed: 7/10/03	Group Art Unit: 2652
Title: METHOD AND APPARATUS REDUCING OFF-TRACK HEAD MOTION DUE TO DISK VIBRATION IN A DISK DRIVE THROUGH FLEXURE MOUNTING AND/OR NON-SYMMETRIC HINGING WITHIN THE HEAD GIMBAL ASSEMBLY	Examiner: Not yet known
Attorney Docket No.: 139-029U	

Mail Stop IDS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

X under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)

___ under 37 CFR 1.97(c) together with either a:
___ Certification under 37 CFR 1.97(e), or
___ a $240.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

___ under 37 CFR 1.97(d) together with a:
___ Certification under 37 CFR 1.97(e), and
___ a petition under 37 CFR 1.97(d)(2)(ii), and
___ a $130.00 petition fee set forth in 37 CFR 1.17(i)(1).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

_X_ Applicant(s) submit herewith Form PTO/SB/08A and PTO/SB/08B-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

The relevance of the attached references is that this is the closest art of which Applicant is aware. Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

GREGORY SCOTT SMITH
Attorney/Agent for Applicant(s)
Reg. No. 38,309

Date: February 23, 2004

Telephone No.: (510) 742-7417

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Mail Stop IDS, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit: February 23, 2004

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Signature:

PTO/SB/08A (05-03)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	10/618,524
Filing Date	7/10/03
First Named Inventor	Oh et al.
Art Unit	2652
Examiner Name	Not yet known
Attorney Docket Number	139-029U

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number - Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,999,369	12-07-1999	Shimizu et al.	
		US-6,061,205	05-09-2000	Finegan	
		US-6,088,192	07-11-2000	Riener et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

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PTO/SB/08B (05-03)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

Complete if Known	
Application Number	10/618,524
Filing Date	7/10/03
First Named Inventor	Oh et al.
Group Art Unit	2652
Examiner Name	Not yet known
Attorney Docket Number	139-029U

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	1	Aurthor unknown, Design of a Disk Drive Servo: A Case Study, 37 pages, Chapter 14.	
	2	LI, YUNFENG and HOROWITZ, ROBERTO, Active Vibration Control of a PZT Actuated Suspension in Hard Disk Drives, date unknown, 6 pages.	
	3	MCALLISTER, S. JEFFREY, The Effect of Disk Platter Resonances on Track Misregistration in 3.5 Inch Disk Drives, IEEE Transactions on Magnetics, May 1996, 5 pages, volume 32, Number 3.	
	4	HAO, QI et al., TMR Online Optimization Using Quasi-Newton Method for HDD Servo Systems, Procedings of the American Control Conference, June 2000, 55 pages, Chicago, Illinois.	
	5	GOH, B. TECK et al., Design and Implementation of a Hard Disk Drive Servo System Using Robust and Perfect Tracking Approach, IEEE Transaction on Control Systems Technology, March 2001, 13 pages, Volume 9, Number 2.	
	6	LI, YUNFENG and HOROWITZ, ROBERTO, Mechatronics of Electrostatic Microactuators for Computer Disk Drive Dual-Stage Servo Systems, IEEE/Asme Transactions of Mechatroics, June 2001, 11 pages, Volume 6, Number 2.	
	7	LI, YUNFENG and HOROWITZ, ROBERTO, Active Suspension Vibration Control with Dual Stage Actuators in Hard Disk Drives, Proceedings of the American Control Conference, June 25-27, 2001, 6 pages.	
	8	Y. LI, R. HOROWITZ, Design and Testing of Track-Following Controllers for Dual-Stage Servo Systems with PZT Actuated Suspensions, Microsystem Technologies 8 (2002), 12 pages, Springer-Verlag 2002.	
	9	Web Control Articles, 164 pages, 10/10/02.	

Examiner Signature		Date Considered	

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[1]Applicant's unique citation designation number (optional). [2]Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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